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## MINUTES.

*Stated Meeting, January 2, 1920.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of

Charles E. Hall, on October 21, 1915.

Louis Valentine Pirrson, M.A., at New Haven, on December 8, 1919, æt. 59.

Sir William Osler, Bart., at Oxford, England, on December 29, 1919, æt. 70.

C. E. K. Mees, D.Sc., read a paper on "Photography from the Air. An account of Technical Conditions which are met in Aërial Photography and of the Methods by which they have been Studied," which was discussed by Dr. Ives, Mr. Rosengarten, and the President.

The Judges of the Annual Election held this day between the hours of 2 and 5 in the afternoon, reported that the following named members were elected according to the rules, regulations and ordinances of the Society, to be the Officers for the ensuing year.

### *President.*

William B. Scott.

### *Vice-Presidents.*

George Ellery Hale,  
Arthur A. Noyes,  
Hampton L. Carson.

### *Secretaries.*

I. Minis Hays,  
Arthur W. Goodspeed,  
Harry F. Keller,  
John A. Miller.

## MINUTES.

*Curators.*

William P. Wilson,  
Leslie W. Miller,  
Henry H. Donaldson.

*Treasurer.*

Henry La Barre Jayne.

*Councillors.*

(To serve for three years.)

William Libbey,  
W. W. Atterbury,  
M. I. Pupin,  
Morris Jastrow, Jr.

(To fill an unexpired term in the

Class of 1918-20.)  
Edwin Swift Balch.

*Stated Meeting, February 6, 1920.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The decease was announced of Richard C. Maclaurin, D.Sc., LL.D., at Boston, on January 15, 1920, æt. 50.

Dr. Louis A. Bauer read a paper on "Observations in Liberia and elsewhere of the Total Solar Eclipse of May 29, 1919, and their bearing upon the Einstein Theory" (illustrated by a complete series of lantern slides from all observations, showing the finely developed solar corona and remarkable prominence as well as the deflected star images), which was discussed by Professor J. A. Miller and Dr. Bauer.

*Stated Meeting, March 5, 1920.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Prof. Edward W. Berry, a recently elected member, subscribed the Laws and was admitted into the Society.

Letters were received from Prof. John Trowbridge and Prof. W. LeConte Stevens, resigning membership.

The decease was announced of Francis C. Phillips, Ph.D., at Pittsburgh, on February 16, 1920, æt. 69.

The following papers were read:

"Across the Andes in Search of Fossil Plants," by E. W. Berry, which was discussed by Prof. Harshberger and Dr. Scott.

"Interrelations of Fossil Fuels—The Paleozoic Coals," by John J. Stevenson, Ph.D., LL.D.

*Special Meeting, March 31, 1920.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The resignation of Dr. W. H. Holmes was presented.

The decease was announced of Wilhelm F. Pfeffer, M.D., D.Sc., at Leipzig, on January 31, 1920, æt. 75.

Mr. Howard Russell Butler, of Princeton, read a paper entitled "Painting the Solar Eclipse of 1918," which was discussed by Prof. L. W. Miller and Mr. H. S. Morris.

*Stated General Meeting, April 22, 23, and 24, 1920.*

*Thursday Afternoon, April 22.*

Opening Session, 2 o'clock.

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Dr. Chevalier Jackson, a recently elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

"Beach Protection Works," by Lewis M. Haupt, Sc.D., LL.D., which was discussed by Professors Prince and Webster.

"Geographic Aspects of the Adriatic Problem," by Douglas W. Johnson, Professor of Hydrography at Columbia University (introduced by Prof. W. M. Davis), which was discussed by President Scott and Prof. A. G. Webster.

"The Reefs of Tutuila, Samoa, in their Relation to Coral Reef Theories," by Alfred G. Mayor, Director of the Department of Marine Biology, Carnegie Institution of Washington.

"Distribution of Land and Water on the Earth," by Harry Fielding Reid, C.E., Ph.D., Professor of Dynamic Geology,

- Johns Hopkins University, which was discussed by Prof. W. M. Davis and Prof. A. G. Webster.
- "Thyroxin," by C. E. Kendall, Ph.D., of the Mayo Clinic, Assistant Professor of Chemistry, University of Minnesota (introduced by Dr. P. B. Hawk), which was discussed by Dr. Keen.
- "The Dualistic Conception of the Processes of Life," by Samuel J. Meltzer, M.D., LL.D., Head of Dept. of Physiology, Rockefeller Institute for Medical Research, New York.
- "The Relation of the Bacillus Influenzæ to Influenza," by Francis G. Blake, M.D., Associate in Medicine, Hospital of the Rockefeller Institute for Medical Research, New York. (Introduced by Dr. A. C. Abbot.)
- "X-Rays of the Brain after Injection of Air into the Ventricles of the Brain and into the Spinal Canal," by W. E. Dandy, M.D., Associate in Surgery, Johns Hopkins Hospital (introduced by Dr. Keen), which was discussed by Dr. Keen.
- "Celt and Slav," by J. Dyneley Prince, Ph.D., Professor of Slavonic Languages, Columbia University, which was discussed by Professors Jastrow, W. M. Davis, A. G. Webster, W. E. Castle, J. D. Prince and President Scott.
- "A New Theory of Polynesian Origins," by Roland B. Dixon, Ph.D., Professor of Anthropology, Harvard University. (Introduced by W. C. Farabee.)
- "The Zoroastrian Doctrine of the Freedom of the Will," by A. V. Williams Jackson, L.H.D., LL.D., Professor of Indo-Iranian Languages, Columbia University.
- "The Hittite Civilization," by Morris Jastrow, Jr., Ph.D., LL.D., Professor of Semitic Languages, University of Pennsylvania, which was discussed by Prof. A. G. Webster.

*Friday, April 23.*

*Executive Session, 9:30 o'clock.*

The Proceedings of the Officers and Council were submitted.

*Morning Session, 10 o'clock.*

ARTHUR A. NOYES, D.Sc., LL.D., Vice-President, in the Chair.

The following papers were read:

- "The Components and Colloidal Behavior of Protoplasm," by D. T. MacDougal, Ph.D., LL.D., Director of the Desert Laboratory, Carnegie Institution, Tucson, Arizona, and H. A. Spoehr.
- "Respiration," by W. J. V. Osterhout, Professor of Botany, Harvard University.
- "The Behavior of the Sulfurea Character in Crosses with *Ænothera biennis* and with *Ænothera franciscana*," by Bradley M. Davis, Professor of Botany, University of Michigan, which was discussed by Professors Geo. H. Shull and A. G. Webster.
- "*Ænothera funifolia*, a peculiar new Mutant from *Ænothera lamarckiana*," and
- "A Third Duplication of Genetic Factors in Shepherd's Purse," by George H. Shull, Ph.D., Professor of Botany and Genetics, Princeton University, which was discussed by Professors W. E. Castle and A. G. Webster.
- "Some Effects of the Fertilization of Maize," by Edward M. East, Ph.D., Professor of Experimental Plant Morphology, Harvard University.
- "The Chemistry of the Cell," by Thomas B. Osborne, Ph.D., D.Sc., Research Chemist Connecticut Agricultural Experiment Station. (Introduced by Dr. Harry F. Keller.)
- "The Relation of Oxygen to Charcoal," by George A. Hulett, Ph.D., Professor of Physical Chemistry, Princeton University.
- "Products of Detonation of TNT," by Charles E. Munroe, Ph.D., LL.D., Professor of Chemistry, George Washington University and S. P. Howell, which was discussed by Prof. A. G. Webster.
- "A New Map of the Vegetation of North America," by John W. Harshberger, Ph.D., Professor of Botany, University of Pennsylvania, which was discussed by Dr. MacDougal and President Scott.
- "On the Vibration of Rifle Barrels," by Arthur Gordon Webster, D.Sc., LL.D., Professor of Physics, Clark University, Worcester.

*Afternoon Session, 2 o'clock.*

HAMPTON L. CARSON, M.A., LL.D., Vice-President, in the Chair.

Professors Stephen A. Forbes, Dayton C. Miller, Henry A. Bumstead and Julius Stieglitz, recently elected members, subscribed the Laws and were admitted into the Society.

The following papers were read:

Symposium on Psychology in War and Education

"Introduction," by Lightner Witmer, Ph.D., Director of the Psychological Laboratory and Clinic, University of Pennsylvania.

"Methods," by J. McKeen Cattell.

"Psychological Examining and Classification in the United States Army," by Robert M. Yerkes, Ph.D., Chairman of Division of Research Information, National Research Council, Washington. (By invitation.)

"The Relation of Psychology to Special Problems of the Army and Navy," by Raymond Dodge, Ph.D., Professor of Psychology, Wesleyan University. (By invitation.)

"Relation of Psychology to the National Research Council," by James R. Angell, A.M., Litt.D., Chairman of the National Research Council, Washington. (By invitation.)

"Psychological Methods in Business and Industry," by Beardsley Rumel, Ph.D., Philadelphia. (By invitation.)

"The Individual in Education," by Arthur J. Jones, Ph.D., Professor of Education, University of Pennsylvania. (By invitation.)

which were discussed by Prof. Webster and Mr. Carson.

*Evening Session, 8:30 o'clock.*

Robert William Wood, LL.D., Professor of Experimental Physics, Johns Hopkins University, spoke on "Invisible Light in War and Peace" (with experimental illustrations).

*Saturday, April 24.*

*Executive Session, 9:30 o'clock.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Prof. Carl Eigenmann and William A. Setchell, recently elected members, subscribed the Laws and were admitted into the Society.

Pending nominations for membership were read and the Society proceeded to an election. The tellers subsequently reported that the following nominees had been elected to membership, viz.:

Wilder D. Bancroft, Ph.D., Washington.

Gary N. Calkins, Ph.D., New York.

Edward Capps, Ph.D., LL.D., Princeton.

Heber D. Curtis, A.M., Ph.D., Mt. Hamilton, Calif.

Leonard E. Dickson, A.M., Ph.D., Chicago.

William Duane, A.M., Ph.D., Boston.

Moses Gomberg, M.S., Sc.D., Ann Arbor.

Frank J. Goodnow, A.M., LL.D., Baltimore.

John F. Jameson, Ph.D., LL.D., Litt.D., Washington.

Douglas W. Johnson, Ph.D., New York.

Vernon L. Kellogg, M.S., Stanford Univ., Calif.

George F. Moore, A.M., LL.D., D.D., Cambridge.

Paul Shorey, LL.D., Litt.D., Chicago.

William C. Sproul, B.S., Ph.D., Chester, Pa.

Pope Yeatman, M.E., Philadelphia.

The following recommendation from the Officers and Council was considered and adopted by unanimous vote:

“That nominations for membership of persons not inhabitants of the United States be suspended until the number of such members be reduced to fifty and that thereafter the number of such members shall not exceed fifty.”

*Morning Session, 10 o'clock.*

GEORGE ELLERY HALE, Ph.D., Sc.D., Vice-President, in the Chair.

The following papers were read:

“The Problem of the Evolution of the Solar System,” by



Ernest W. Brown, Sc.D., Professor of Mathematics, Yale University, which was discussed by Professors Geo. E. Hale, A. G. Webster, W. M. Davis and H. N. Russell.

"Certain Aspects of recent Spectroscopic Observations of the Gaseous Nebulæ which appear to Establish the relationship between them and the Stars," by W. H. Wright, Astronomer, Lick Observatory (introduced by Prof. Robert G. Aitken), which was discussed by Professors H. N. Russell and M. B. Snyder.

"The Einstein Theory," by Edwin Plimpton Adams, Ph.D., Professor of Physics, Princeton University, which was discussed by Professors A. G. Webster and Elihu Thomson.

"The Results of Geophysical Observations during the Solar Eclipse of May 29, 1919, and their Bearing upon the Einstein Deflection of Light" (illustrated), by Louis A. Bauer, Ph.D., Sc.D., Director of the Department of Terrestrial Magnetism, Carnegie Institution of Washington, which was discussed by Professors H. N. Russell, J. A. Miller and George E. Hale.

"The High Voltage Corona in Air," by J. B. Whitehead, Professor of Applied Electricity, Johns Hopkins University (introduced by Dr. Pender), which was discussed by Prof. Elihu Thomson.

"The Velocity of Explosive Sounds," by Dayton C. Miller, D.Sc., Professor of Physics, Case School of Applied Science, Cleveland, which was discussed by Professors A. G. Webster, Harvey W. Wiley and Augustus Trowbridge.

"The U. S. Navy MV-Type of Hydrophone as an aid and safeguard to Navigation," by Harvey C. Hayes, Ph.D., U. S. Naval Experimental Station, Annapolis (introduced by Dr. John A. Miller), which was discussed by Prof. Webster.

"The Transient Process of Establishing a steady Alternating Electric Current on a long line from Laboratory Measurements on an artificial Line," by A. E. Kennelly, A.M., Sc.D., Director, Research Division, Electrical Engineering Department, Mass. Institute of Technology, and U. Nabeshima, which was discussed by Prof. A. G. Webster.

*Afternoon Session, 2 o'clock.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

The presentation of a portrait of the late Edward C. Pickering, LL.D., Vice-President of the Society, 1909-17, was made, on behalf of the donors, by Dr. George E. Hale, and the gift was received with thanks by the President.

Prof. J. C. Merriam, a recently elected member, subscribed the Laws and was admitted into the Society.

The following papers were read:

- "Animal Luminescence and Stimulation," by E. Newton Harvey, Ph.D., Professor of Physiology, Princeton University. (Introduced by Dr. H. H. Donaldson.)
- "The Phosphorescence of Renilla," by George H. Parker, S.D., Professor of Zoölogy, Harvard University, which was discussed by Prof. Eric Dahlgren.
- "Feeding Habits of Pseudomyrmex Ants," by W. M. Wheeler, Ph.D., Sc.D., Professor of Economic Entomology, Bussey Institution, Harvard University, and Irving W. Bailey, Assistant Professor of Forestry, Harvard University, which was discussed by Prof. Kennelly.
- "On Correlation of Shape and Station in Fresh Water Mussels," by A. E. Ortmann, Ph.D., Sc.D., Curator of Invertebrate Zoölogy, Carnegie Museum, Pittsburgh.
- "Evolution Principles deduced from a Study of the Even-toed Ungulates, known as Titanotheres," by Henry Fairfield Osborn, Sc.D., LL.D., Research Professor of Zoölogy, Columbia University.
- "The Astrapotheria," by William B. Scott, Sc.D., LL.D., Professor of Geology, Princeton University.
- "The Middle Cambrian Beds at Manuels, Newfoundland, and their Relations," by B. F. Howell, Jr., B.S., Instructor in Geology, Princeton Univ. (Introduced by Prof. W. B. Scott.)
- "The Glacial Anticyclone and the Blizzard in Relation to the Domed Surface of Continental Glaciers," by William H.

Hobbs, D.Sc., Ph.D., Professor of Geology, University of Michigan, which was discussed by Prof. W. M. Davis.

Also

"The Michigan Meteor of November 26, 1919," by the same author, which was discussed by Professors A. G. Webster, Elihu Thomson, W. F. Magie and H. N. Russell.

"The Decipherment of the Hittite Languages," by Maurice Bloomfield, L.H.D., LL.D., Professor of Sanskrit and Comparative Philology, Johns Hopkins University, which was discussed by Professors Jastrow and Paul Haupt.

(1) The Beginning of the Fourth Gospel.

(2) "Golgotha," by Paul Haupt, Ph.D., LL.D., Professor of Semitic Languages, Johns Hopkins University, which were discussed by Professors Webster and Jastrow.

"The Strephoscope," by N. W. Akimoff. (Introduced by Prof. Eric Doolittle.)

"New Features in the Eclipsing Variable U Cephei," by R. S. Dugan, Professor of Astronomy, Princeton University. (Introduced by Prof. H. N. Russell.)

"Universal Radioaction and the Volcanoes," by John A. Snyder, Professor of Astronomy and Mathematics, Central High School, Philadelphia, and Monroe B. Synder, Director of the Philadelphia Observatory.

*Stated Meeting, May 7, 1920.*

WILLIAM B. SCOTT, D.Sc., LL.D., President, in the Chair.

Mr. Pope Yeatman, a newly elected member, subscribed the Laws and was admitted into the Society.

Letters accepting membership were received from:

Wilder D. Bancroft, Ph.D.,

Edward Capps, Ph.D.,

Leonard E. Dickson, A.M., Ph.D.,

William Duane, Ph.D.,

Moses Gomberg, M.S., Sc.D.,

Frank J. Goodnow, A.M., LL.D.,

John F. Jameson, Ph.D., LL.D.,

Douglas W. Johnson, Ph.D.,

Vernon L. Kellogg, M.S.,

Pope Yeatman, M.E.

The decease was announced of John A. Brashear, D.Sc., LL.D., at Pittsburgh, on April 8, 1920, æt. 80.

Prof. Charles Upson Clark read a paper on "The Adriatic Problems."

*Special Meeting, May 14, 1920.*

HAMPTON L. CARSON, M.A., LL.D., Vice-President, in the Chair.

The meeting was called by the President to take action on the death of Henry La Barre Jayne, the Treasurer of the Society.

The decease was announced of Henry La Barre Jayne, at Philadelphia, on May 10, 1920, æt. 62.

The following minute was offered:

"This Society has learned with genuine grief of the death of Henry La Barre Jayne. The twenty-two years of his membership were characterized by an earnest loyalty to its interests, a constant solicitude for its welfare and an eager desire at all times to do everything within his power to promote its usefulness. For eighteen years he discharged the duties of Treasurer with marked fidelity. By his lovable traits, his benevolent character, his unfailing courtesy, his rare amiability and his high sense of justice, he commanded the esteem and admiration of all whose privilege it was to know him.

"This Society desires to record its deep appreciation of the valuable services which he rendered to it both as a member and as its Treasurer, and its high estimate of his notable qualities of mind and heart which greatly endeared him to his associates."

The adoption of the foregoing minute was moved, with appropriate remarks, by Mr. Russell Duane, Dr. W. W. Keen, Dr. Morris Jastrow, Jr., Mr. Rosengarten and Vice-President Carson.

The minute was adopted by an unanimous vote.

*Stated Meeting, October 1, 1920.*

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

Hon. William C. Sproul, a newly elected member, subscribed the Laws and was admitted into the Society.

Letters accepting membership were received from

The Hon. William C. Sproul,

Prof. Paul Shorey,

Prof. George F. Moore,

Mr. Heber D. Curtis,

Prof. Gary N. Calkins.

The decease was announced of the following members:

Gen. William C. Gorgas, M.D., at London, on July 4, 1920, æt. 66.

William H. Furness, 3d, M.D., at Wallingford, Pa., on August 11, 1920, æt. 54.

Benjamin Smith Lyman, at Philadelphia, on August 30, 1920, æt. 88.

William Wundt, Ph.D., at Leipzig, on Aug. 31, 1920, æt. 88.

Harmon N. Morse, Ph.D., at Chebeague, Maine, on Sept. 21, 1920, æt. 72.

Eric Doolittle, C.E., at Philadelphia, on Sept. 21, 1920, æt. 50.

Theodore Turrettini, of Geneva.

Prof. John M. Macfarlane made some verbal remarks on a recently discovered species of Philippine *Nepenthes* or Pitcher Plants, which was discussed by Mr. Rosengarten, Dr. Harshberger, Prof. True, and the President.

Dr. Harshberger made some remarks on a visit to the Box Huckleberry, *Gaylussacia Brachycera*, at New Bloomfield, Perry County, Pa.

*Stated Meeting, November 5, 1920.*

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

The decease was announced of

Joseph P. Iddings, Ph.D., Sc.D., at Brinklow, Md., on Sept. 8, 1920, æt. 63.

Prof. Yves Delage, at Roscoff, France, on Oct. 8, 1920, æt. 66.

Prof. Scott read a paper on the "Astrapotheria, a Remarkable Group of Prehistoric South American Animals."

*Stated Meeting, December 3, 1920.*

WILLIAM B. SCOTT, Sc.D., LL.D., President, in the Chair.

The decease was announced of

Samuel James Meltzer, of New York, on November 7, 1920,  
æt. 69.

Baron de Geer, of Stockholm, spoke on "Spitzbergen as the Key to the Origin of Northern Europe and North America and the Starting of an Exact Geo-chronology."